BRUHAT BENGALURU MAHANAGARA PALIKE

Name of work:-Improvements of roads, drains and construction of culverts at Sadiq Layout, and surrounding areas in Ward No.06

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
1	KSRRB 300-3. **Earthwork excavation** by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 143/ Item No. 19.1/ PWD SR 2018-19								
		Cum							
	New Drain								
	Sadiq Layout								
	Thanisandra 3rd Main Road(North Side)		1	404.00	1.20	1.00	484.80		
	Thanisandra 3rd Main Road(South Side)		1	384.00	1.20	1.00	460.80		
	Sadiq Layout								
	South								
	W1497 2nd Cross Road		1	77.00	1.10	1.00	84.70		
	W1501 3rd Cross Road		1	76.00	1.10	1.00	83.60		
	W1511 4th Cross Road		1	70.60	1.10	1.00	77.66		
	W1519 5th Cross Road		1	69.00	1.10	1.00	75.90		
	W1525 6th Cross Road		1	74.30	1.10	1.00	81.73		
	W1529 7th Cross Road		1	76.00	1.10	1.00	83.60		
	8th Cross Road		1	76.00	1.10	1.00	83.60		
	North								
	W1499		1	24.60	1.10	1.00	27.06		
	W1503		1	30.50	1.10	1.00	33.55		
	W1505		1	32.00	1.10	1.00	35.20		
	W151		1	43.00	1.10	1.00	47.30		
	W11521		1	43.50	1.10	1.00	47.85		
	New Culvert								
	Culvert 1		2	6.50	1.40	1.20	21.84		
	Culvert 2		2	6.00	1.40	1.20	20.16		
	Culvert 3		2	5.50	1.40	1.20	18.48		
	Culvert 4		2	5.80	1.40	1.20	19.49		
	Culvert 5		2	4.50	1.40	1.20	15.12		
	Culvert 6		2	5.30	1.40	1.20	17.81		
	Culvert 7		2	5.50	1.40	1.20	18.48		
							1838.73	**238.92**	**439,316.00**
	Basic Rate	130.00							
	Loading & Unloading	57.00							
	Add for Lead of earth (1.28 Tonne/ Cum) 15km	38.40							
	Area Weightage @ 6 %	13.52							
	Total Rate	238.92							
2	KSRRB M2900-1. **Plain cement concrete 1:3:6** mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
		Cum							
	New Drain								
	Sadiq Layout								
	Thanisandra 3rd Main Road(North Side)		1	404.00	1.10	0.125	55.55		
	Thanisandra 3rd Main Road(South Side)		1	384.00	1.10	0.125	52.80		
	Sadiq Layout								
	South								
	W1497 2nd Cross Road		1	77.00	0.90	0.125	8.66		
	W1501 3rd Cross Road		1	76.00	0.90	0.125	8.55		
	W1511 4th Cross Road		1	70.60	0.90	0.125	7.94		
	W1519 5th Cross Road		1	69.00	0.90	0.125	7.76		
	W1525 6th Cross Road		1	74.30	0.90	0.125	8.36		
	W1529 7th Cross Road		1	76.00	0.90	0.125	8.55		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	8th Cross Road		1	76.00	0.90	0.125	8.55		
	North								
	W1499		1	24.60	0.90	0.125	2.77		
	W1503		1	30.50	0.90	0.125	3.43		
	W1505		1	32.00	0.90	0.125	3.60		
	W151		1	43.00	0.90	0.125	4.84		
	W11521		1	43.50	0.90	0.125	4.89		
	New Culvert								
	Culvert 1		2	6.50	1.20	0.125	1.95		
	Culvert 2		2	6.00	1.20	0.125	1.80		
	Culvert 3		2	5.50	1.20	0.125	1.65		
	Culvert 4		2	5.80	1.20	0.125	1.74		
	Culvert 5		2	4.50	1.20	0.125	1.35		
	Culvert 6		2	5.30	1.20	0.125	1.59		
	Culvert 7		2	5.50	1.20	0.125	1.65		
							197.99	**4479.56**	**886,891.00**
	Basic Rate	4226.00							
	Area Weightage @ 6 %	253.56							
	Total Rate	4479.56							
3	Providing and laying plain/reinforced cement concrete for side drains using **M20** nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.**Wall & bottom thickness 15cm** KPWD S.R 2018-19 Page No. 271 I.No. 37.59.2								
		Cum							
	For Raft								
	New Drain								
	Sadiq Layout								
	Thanisandra 3rd Main Road(North Side)		1	404.00	0.90	0.15	54.54		
	Thanisandra 3rd Main Road(South Side)		1	384.00	0.90	0.15	51.84		
	Sadiq Layout								
	South								
	W1497 2nd Cross Road		1	77.00	0.90	0.15	10.40		
	W1501 3rd Cross Road		1	76.00	0.90	0.15	10.26		
	W1511 4th Cross Road		1	70.60	0.90	0.15	9.53		
	W1519 5th Cross Road		1	69.00	0.90	0.15	9.32		
	W1525 6th Cross Road		1	74.30	0.90	0.15	10.03		
	W1529 7th Cross Road		1	76.00	0.90	0.15	10.26		
	8th Cross Road		1	76.00	0.90	0.15	10.26		
	North								
	W1499		1	24.60	0.90	0.15	3.32		
	W1503		1	30.50	0.90	0.15	4.12		
	W1505		1	32.00	0.90	0.15	4.32		
	W151		1	43.00	0.90	0.15	5.81		
	W11521		1	43.50	0.90	0.15	5.87		
	For Side wall								
	New Drain								
	Sadiq Layout								
	Thanisandra 3rd Main Road(North Side)		2	404.00	0.15	0.60	72.72		
	Thanisandra 3rd Main Road(South Side)		2	384.00	0.15	0.60	69.12		
	Sadiq Layout								
	South								
	W1497 2nd Cross Road		2	77.00	0.15	0.60	13.86		
	W1501 3rd Cross Road		2	76.00	0.15	0.60	13.68		
	W1511 4th Cross Road		2	70.60	0.15	0.60	12.71		

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	W1519 5th Cross Road		2	69.00	0.15	0.60	12.42		
	W1525 6th Cross Road		2	74.30	0.15	0.60	13.37		
	W1529 7th Cross Road		2	76.00	0.15	0.60	13.68		
	8th Cross Road		2	76.00	0.15	0.60	13.68		
	North								
	W1499		2	24.60	0.15	0.60	4.43		
	W1503		2	30.50	0.15	0.60	5.49		
	W1505		2	32.00	0.15	0.60	5.76		
	W151		2	43.00	0.15	0.60	7.74		
	W11521		2	43.50	0.15	0.60	7.83		
	New Culvert								
	For Raft								
	Culvert 1		2	6.50	1.20	0.15	2.34		
	Culvert 2		2	6.00	1.20	0.15	2.16		
	Culvert 3		2	5.50	1.20	0.15	1.98		
	Culvert 4		2	5.80	1.20	0.15	2.09		
	Culvert 5		2	4.50	1.20	0.15	1.62		
	Culvert 6		2	5.30	1.20	0.15	1.91		
	Culvert 7		2	5.50	1.20	0.15	1.98		
	For Side wall								
	Culvert 1		4	6.50	0.25	0.75	4.88		
	Culvert 2		4	6.00	0.25	0.75	4.50		
	Culvert 3		4	5.50	0.25	0.75	4.13		
	Culvert 4		4	5.80	0.25	0.75	4.35		
	Culvert 5		4	4.50	0.25	0.75	3.38		
	Culvert 6		4	5.30	0.25	0.75	3.98		
	Culvert 7		4	5.50	0.25	0.75	4.13		
							509.76	**7070.20**	**3,604,095.00**
	Basic Rate	6670.00							
	Area Weightage @ 6 %	400.20							
	Total Rate	7070.20							
4	KSRRB M2200-6. Providing **T.M.T.** steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 **TMT Bars Fe 550**(P-229/28.8.3) PWD SR 2018-19								
		Tn							
	For RCC Drain								
	Total RCC Quantity	Cum					466.36		
	For 1 Cum = 60	Kg					60.00		
		Kg					27981.45		
							27.98	**72940.72**	**2,040,987.00**
	For RCC Culvert								
	Total RCC Quantity	Cum					43.40		
	For 1 Cum = 80	Kg					80.00		
		Kg					3472.08		
							3.47	**72940.72**	**253,256.00**
	Basic Rate	68812.00							
	Area Weightage @ 6 %	4128.72							
	Total Rate	72940.72							
5	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1)Data rate								
		Sqm							
	New Drain								
	Sadiq Layout								

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	Thanisandra 3rd Main Road(North Side)		1	404.00	0.90		363.60		
	Thanisandra 3rd Main Road(South Side)		1	384.00	0.90		345.60		
	Sadiq Layout								
	South								
	W1497 2nd Cross Road		1	77.00	0.75		57.75		
	W1501 3rd Cross Road		1	76.00	0.75		57.00		
	W1511 4th Cross Road		1	70.60	0.75		52.95		
	W1519 5th Cross Road		1	69.00	0.75		51.75		
	W1525 6th Cross Road		1	74.30	0.75		55.73		
	W1529 7th Cross Road		1	76.00	0.75		57.00		
	8th Cross Road		1	76.00	0.75		57.00		
	North								
	W1499		1	24.60	0.75		18.45		
	W1503		1	30.50	0.75		22.88		
	W1505		1	32.00	0.75		24.00		
	W151		1	43.00	0.75		32.25		
	W11521		1	43.50	0.75		32.63		
							1228.58	**2337.00**	**2,871,180.00**
	Data Rate	2337.00							
6	Providing & laying **precast drain cover slab of 250 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25)Data rate								
		Sqm							
	New Culvert								
	Culvert 1		2	6.50	1.20		15.60		
	Culvert 2		2	6.00	1.20		14.40		
	Culvert 3		2	5.50	1.20		13.20		
	Culvert 4		2	5.80	1.20		13.92		
	Culvert 5		2	4.50	1.20		10.80		
	Culvert 6		2	5.30	1.20		12.72		
	Culvert 7		2	5.50	1.20		13.20		
							93.84	**5418.00**	**508,425.00**
	Data Rate	5418.00							
7	Providing and fixing pre cast solid concrete **kerb stones** of size 450x150x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.Page No. 27/ Item No. 5.29.1/ PWD SR 2018-19								
		No's							
	New Drain								
	Sadiq Layout								
	Thanisandra 3rd Main Road(North Side)		1	404.00			404.00		
	Thanisandra 3rd Main Road(South Side)		1	384.00			384.00		
	Total Length						**788.00**		
	Total Length / 0.45						1751.00		
							1751.00	**477.00**	**835,227.00**
	Basic Rate	450.00							
	Area Weightage @ 6 %	27.00							
	Total Rate	477.00							
8	KSRRB 800-1. Painting **two coats** after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Page No. 180/ Item No. 24.1/ PWD SR 2018-19								
		Sqm							
	Total Length		1	788.00		0.30	236.40		
							236.40	**84.80**	**20,047.00**

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	Basic Rate	80.00							
	Area Weightage @ 6 %	4.80							
	Total Rate	84.80							
	CC ROAD								
9	KSRRB M300-14. **Excavation for roadwork** in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19								
		Cum							
	Sadiq Layout								
	South Side								
	W1497 2nd Cross Road								
	W1501 3rd Cross Road		1	76.00	4.50	0.45	153.90		
	W1511 4th Cross Road		1	76.00	4.00	0.45	136.80		
	W1519 5th Cross Road		1	70.50	4.80	0.45	152.28		
	W1525 6th Cross Road		1	68.00	4.00	0.45	122.40		
	W1529 7th Cross Road		1	74.20	4.50	0.45	150.26		
	8th Cross Road		1	76.00	4.30	0.45	147.06		
	North Side		1	76.00	4.40	0.45	150.48		
	W1499								
	W1503		1	24.50	4.60	0.45	50.72		
	W1505		1	30.40	4.60	0.45	62.93		
	W151		1	32.00	3.90	0.45	56.16		
	W11521		1	43.00	4.00	0.45	77.40		
			1	43.50	4.70	0.45	92.00		
	Basic Rate	41.00					**1352.38**	**84.16**	**113,822.00**
	Add for Lead of earth (1.28 Tonne/ Cum) 15km	38.40							
	Area Weightage @ 6 %	4.76							
	Total Rate	84.16							
10	Construction of granular sub-base **Grading-V as sub-base** and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V Revision. Page No. 153/ Item No. 20.5/ PWD SR 2018-19								
		Cum							
	Sadiq Layout								
	South Side								
	W1497 2nd Cross Road								
	W1501 3rd Cross Road		1	76.00	4.50	0.15	51.30		
	W1511 4th Cross Road		1	76.00	4.00	0.15	45.60		
	W1519 5th Cross Road		1	70.50	4.80	0.15	50.76		
	W1525 6th Cross Road		1	68.00	4.00	0.15	40.80		
	W1529 7th Cross Road		1	74.20	4.50	0.15	50.09		
	8th Cross Road		1	76.00	4.30	0.15	49.02		
	North Side		1	76.00	4.40	0.15	50.16		
	W1499								
	W1503		1	24.50	4.60	0.15	16.91		
	W1505		1	30.40	4.60	0.15	20.98		
	W151		1	32.00	3.90	0.15	18.72		
	W11521		1	43.00	4.00	0.15	25.80		
			1	43.50	4.70	0.15	30.67		
	Basic Rate	1882.00					**450.79**	**1994.92**	**899,297.00**
	Area Weightage @ 6 %	112.92							
	Total Rate	1994.92							

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
11	KSRRB M600-1. Construction of **dry lean cement concrete** mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 with OPC cement @150Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with slip form paver with electronic sensor.MORTH Specification No. 803 Page No. 174/ Item No. 22.1.1 PWD SR 2018-19								
		Cum							
	Sadiq Layout								
	South Side								
	W1497 2nd Cross Road		1	76.00	4.50	0.15	51.30		
	W1501 3rd Cross Road		1	76.00	4.00	0.15	45.60		
	W1511 4th Cross Road		1	70.50	4.80	0.15	50.76		
	W1519 5th Cross Road		1	68.00	4.00	0.15	40.80		
	W1525 6th Cross Road		1	74.20	4.50	0.15	50.09		
	W1529 7th Cross Road		1	76.00	4.30	0.15	49.02		
	8th Cross Road		1	76.00	4.40	0.15	50.16		
	North Side								
	W1499		1	24.50	4.60	0.15	16.91		
	W1503		1	30.40	4.60	0.15	20.98		
	W1505		1	32.00	3.90	0.15	18.72		
	W151		1	43.00	4.00	0.15	25.80		
	W11521		1	43.50	4.70	0.15	30.67		
							450.79	**3800.10**	**1,713,060.00**
	Basic Rate	3585.00							
	Area Weightage @ 6 %	215.10							
	Total Rate	3800.10							
12	constructing un-reinforced, plain cement Pavements using Grade **M-30** over a prepared base with OPC 360 kg/cum coarse aggregate at 0.69cum, fine aggregates at 0.46cum, Coarse and fine aggregate confirming to IS:383-2016 with Superplastizer at 3lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micronthick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour, hire charges of machineries, all lead & lift charges etc., complete as per specifications.MORTH Specification No. 803 Page No. 176/ Item No. 22.6.1 PWD SR 2018-19								
		Cum							
	Sadiq Layout								
	South Side								
	W1497 2nd Cross Road		1	76.00	4.50	0.15	51.30		
	W1501 3rd Cross Road		1	76.00	4.00	0.15	45.60		
	W1511 4th Cross Road		1	70.50	4.80	0.15	50.76		
	W1519 5th Cross Road		1	68.00	4.00	0.15	40.80		
	W1525 6th Cross Road		1	74.20	4.50	0.15	50.09		
	W1529 7th Cross Road		1	76.00	4.30	0.15	49.02		
	8th Cross Road		1	76.00	4.40	0.15	50.16		
	North Side								

SL. No	Description of Itmes	Unit	No	L(m)	B(m)	D(m)	Qty	Rate	Amount
	W1499		1	24.50	4.60	0.15	16.91		
	W1503		1	30.40	4.60	0.15	20.98		
	W1505		1	32.00	3.90	0.15	18.72		
	W151		1	43.00	4.00	0.15	25.80		
	W11521		1	43.50	4.70	0.15	30.67		
							450.79	**5210.96**	**2,349,067.00**
	Basic Rate	4916.00							
	Area Weightage @ 6 %	294.96							
	Total Rate	5210.96							
13	**Vaccum de-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.MORTH Specification No. 803 Page No. 176/ Item No. 22.7 PWD SR 2018-19	Sqm							
	Sadiq Layout								
	South Side								
	W1497 2nd Cross Road		1	76.00	4.50		342.00		
	W1501 3rd Cross Road		1	76.00	4.00		304.00		
	W1511 4th Cross Road		1	70.50	4.80		338.40		
	W1519 5th Cross Road		1	68.00	4.00		272.00		
	W1525 6th Cross Road		1	74.20	4.50		333.90		
	W1529 7th Cross Road		1	76.00	4.30		326.80		
	8th Cross Road		1	76.00	4.40		334.40		
	North Side								
	W1499		1	24.50	4.60		112.70		
	W1503		1	30.40	4.60		139.84		
	W1505		1	32.00	3.90		124.80		
	W151		1	43.00	4.00		172.00		
	W11521		1	43.50	4.70		204.45		
							3005.29	**72.08**	**216,621.00**
	Basic Rate	68.00							
	Area Weightage @ 6 %	4.08							
	Total Rate	72.08							

Sub Total-A	**16,751,291.00**
Tender Premium 5%	**837,564.55**
GST 12%	**2,010,154.92**
DPR 1%	**200,000.00**
PMC 1%	**200,000.00**
Miscellaneous	**989.53**
Total	**20,000,000.00**

Technical Sanction
Accorded For Rs 200 Lakhs
Head of A/C P0190
CER NO : 66 Dt: 10/08/2020
FA CE (YNK)

VSR CIVIL INFRA PVT. LTD. BANGALORE

Consultant

Assistant Engineer
Ward No. 06

Asst Executive Engineer
Yelahanka Sub-division

Executive Engineer
Yelahanka Division
3/8/2020

Administrative Approval
Accorded For Rs. 200.00 Lakhs
Head of A/C P0190
CER NO : 78 Dt: 28/01/2021

VSR CIVIL INFRA PVT LTD

E.E. (Project)

BRUHAT BANGALORE MAHANAGARA PALIKE